



Worksheet for Determining Moisture/Density Relationships AASHTO T 99 AND AASHTO T 180

Project: _____ Source: _____

Where sampled: _____ Quantity represented: _____

Sample of: _____ Lot No. _____ Sample No. _____

Sampled by: _____ Date: _____ Tested by: _____ Date: _____

AASHTO T 99 ☐

AASHTO T 180 ☐

Method ☐ A

☐ B

☐ C

☐ D

Density Determination	Test No. →							
	(a) Wet soil + mold tare [lb]							
	(b) Mold tare [lb]							
	(c) [a-b] Wet wt. [lb]							
	(d) Wet density (*)c [lb/ft ³]							
	Dry density ($\frac{c}{1+0.01w}$) [lb/ft ³]							

* For molds within tolerance, use a constant factor 1059.43 for methods A and C or 470.74 for methods B and D.

Moisture Determination	Pan No. →							
	(r) Wet soil wt. + tare [g]							
	(s) Dry soil wt. + tare [g]							
	(t) Tare [g]							
	(u) Dry soil wt. [s-t] [g]							
	(v) Water wt. [r-s] [g]							
	(w) Moisture ($\frac{v}{u} \times 100$) [%]							

Dry Density (lb/ft³)

Maximum Dry Density:

_____ lbs/ft³

Optimum Moisture:

_____ %

